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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,222	10/24/2003	Vyacheslav M. Ryaboy	155603-0311	2279

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EXAMINER

MARSH, STEVEN M

ART UNIT PAPER NUMBER

3632

DATE MAILED: 03/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/693,222

Applicant(s)

RYABOY ET AL.

Examiner

Steven M Marsh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☒ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

This is the first office action for U.S. Application 10/693,222 for an Instrumented Platform for Vibration Sensitive Equipment filed by Vyacheslav Ryaboy on October 24, 2003.

#### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the wireless transmitter must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

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the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Information Disclosure Statement***

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4-6, 8, 9, 11, 12, 14-16, 18, and 19 are rejected under 35

U.S.C. 102(e) as being anticipated by U.S. Patent 6,511,035 B1 to Teel et al. Teel et al. discloses a platform assembly with a table (10) that has a first surface (12) coupled to

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the vibration-sensitive payload, a second surface (bottom of 14), and an inner core (portion inside of 12 and 14) located between the first and second surfaces. There is a vibration sensor (52) located with the inner core and the first surface extends along a first plate (38) and the vibration sensor is attached to the first plate (by the structure of the table). There is a damper (44) located within the inner core that includes an active actuator that is coupled to the vibration sensor. There is a control circuit (150) coupled to the vibration sensor and the active actuator and there is a honeycomb core (col. 3, lines 20-24) within the inner core. The control circuit causes the active actuator to create an active force that emulates the effect of a viscous damper in a frequency domain encompassing a plurality of natural frequencies of a flexural vibration of the first surface.

Claims 21-25 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 6,220,100 B1 to Felkins et al. Felkins et al. discloses a method for sensing vibration of a payload coupled to a first surface of a platform table comprising the steps of sensing the vibration with a vibration sensor (58) and transmitting the output signals from the vibrations sensors. Claims 21-25 contain limitations not directed towards the method steps of sensing the vibration, and therefore these limitations are given no patentable weight.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teel et al. in view of U.S. Patent 5,170,104 to Laughlin. Teel et al. discloses the sensor attached to a control system, but does not disclose an electrical connector attached to an external surface of the table and coupled to the vibration sensor. Laughlin discloses a platform assembly with a vibration sensor (14) that is connected to a control system (17) by an electrical connector (the wires). It would have been obvious to one of ordinary skill in the art at the time of the present invention to have provided an electrical connector (such as wire) between the sensor and control system, for the purpose of providing a connection between the two.

Claims 7 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teel et al. in view of U.S. Patent 6,241,435 B1 to Huang et al. Teel et al. does not disclose a monitor coupled to the vibration sensors (accelerometer). Huang et al. discloses a device where the dynamics of the assembly are measured by vibration sensors (14) attached to a monitor (26 via 20) so the vibration can be compensated for. It would have been obvious to one of ordinary skill in the art at the time of the present invention to have coupled a monitor to the vibration sensors taught by Teel et al., as taught by Huang et al., for the purpose of measuring dynamics of the system to compensate for vibrations.

Claims 10 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teel et al. Teel et al. does not specifically disclose a vibration sensor with a

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wireless transmitter, however, Applicant describes wireless transmits as a known means in the art (page 13, lines 1-5). It would have been obvious to one of ordinary skill in the art at the time of the present invention to have utilized a wireless transmitter to transmit the output signal of the device taught by Teel et al., as known in the prior art, to eliminate cords or wires.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 6,700,304 B1 to Fuller et al.

U.S. Patent 5,912,442 to Nye et al.

U.S. Patent 4,164,151 to Nolan et al.

U.S. Patent 5,765,800 to Watanabe et al.

U.S. Patent 5,969,256 to Hobbs

U.S. Patent 6,202,492 B1 to Ohsaki

U.S. Patent 6,286,644 B1 to Wakui

U.S. Patent 5,412,991 to Hobbs

U.S. Patent 5,517,857 to Hobbs

U.S. Patent 4,729,239 to Gordon

U.S. Patent 4,621,006 to Terry et al.

U.S. Patent 5,500,209 to Terry

U.S. Patent 5,626,157 to Galpin et al.

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The above patents all disclose platform assemblies.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Marsh whose telephone number is (703) 305-0098. The examiner can normally be reached on Monday-Friday from 8:00AM to 4:30 PM. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2168. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

*Slm*

Steven M. Marsh

March 9, 2005

  
**RAMÓN O. RAMÍREZ**  
**PRIMARY EXAMINER**